

## **Out of Hospital Cardiac Arrest (OHCA) Case Definition**

To best fit the CARES OCHA case definition, “ A non-traumatic out-of-hospital cardiac arrest where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This also includes patients that receive an AED shock by a bystander prior to the arrival of 911 responders,” the following criteria were applied to EMS runs:

1. Cardiac Arrest During EMS Event is equal to “ Yes, After EMS Arrival” or “Yes, Prior to EMS Arrival;”
2. Cardiac Arrest Etiology is not equal to “Trauma;”
3. Resuscitation Attempted by EMS is not equal to “Not Attempted-Biological Death Criteria Met,” “Not Attempted-DNR Orders,” or “Not Attempted-Signs of Circulation;”
4. Incident Patient Disposition is not equal to “Canceled (Prior to Arrival At Scene),” “Canceled on Scene (No Patient Contact),” “Canceled on Scene(No Patient Found),” “Interfacility transport – CCT” or “Patient Dead at Scene-No Resuscitation Attempted (DOA);”
5. Scene Incident Location Type is not equal to “Hospital.”

## **Bystander CPR Case Definition**

When OCHA criteria was met, an EMS run was considered to include bystander CPR if it included the following:

1. CPR Care Provided Prior to EMS Arrival is equal to “Yes;”
2. Who Provided CPR Prior to EMS Arrival is not equal to “First Responders (Fire, Law, EMS)” or “Other EMS Professional (not part of the dispatched response).”

Out of Hospital Cardiac Arrests, Rhode Island 2018		
	N	(%)
Total (Prior to Applying CARES Criteria)	1,375	
<b>Total (After Applying CARES Criteria)</b>	<b>884</b>	<b>(100)</b>
<b>CPR Care Provided Prior to EMS Arrival</b>		
Bystander CPR	328	(37.1)
No Bystander CPR	415	(47.0)
Not Applicable/Not Recorded/Missing	141	(16.0)
<b>Who Provided CPR Prior to EMS Unit's Arrival (N=328)*</b>		
Family Member	71	(21.7)
Lay Person (Non-Family)	37	(11.3)
Healthcare Professional (Non-EMS)	92	(28.1)
First Responder (Fire, Law, EMS)	129	(39.3)
Other EMS Professional (not part of dispatched response)	7	(2.1)
*Categories are not mutually exclusive; multiple types of bystander may preform CPR on one patient.		

This table **includes** First Responders and Other EMS Professionals who provide CPR prior to EMS Unit's Arrival as Bystanders.

Out of Hospital Cardiac Arrests, Rhode Island 2018		
	N	(%)
Total (Prior to Applying CARES Criteria)	1,375	
<b>Total (After Applying CARES Criteria)</b>	<b>884</b>	<b>(100)</b>
<b>Bystander CPR Prior to EMS Arrival</b>		
<b>Bystander CPR</b>	<b>198</b>	<b>(22.4)</b>
No Bystander CPR	545	(61.7)
Not Applicable/Not Recorded/Missing	141	(16.0)

This table **excludes** First Responders and Other EMS Professionals who provide CPR prior to EMS Unit's Arrival as Bystanders.

<b>Who Provided CPR Prior to EMS Arrival (N=198)*</b>		
Family Member	71	(36.2)
Lay Person (Non-Family)	37	(18.9)
Healthcare Professional (Non-EMS)	92	(46.9)

\*Categories are not mutually exclusive; multiple types of bystander may preform CPR on one patient.